INCH-POUND MIL-DTL-28748/16 12 April 2004

DETAIL SPECIFICATION SHEET

CONNECTORS, ELECTRICAL, HEXAGONAL, RACK AND PANEL, MINIATURE, PLUG-RECEPTACLE, FEMALE SOLDER CUP PIN CONTACTS, SIZE 20

This specification is approved for use by all Departments and Agencies of the Department of Defense.

The requirements for acquiring the product described herein shall consist of this specification sheet and MIL-DTL-28748.

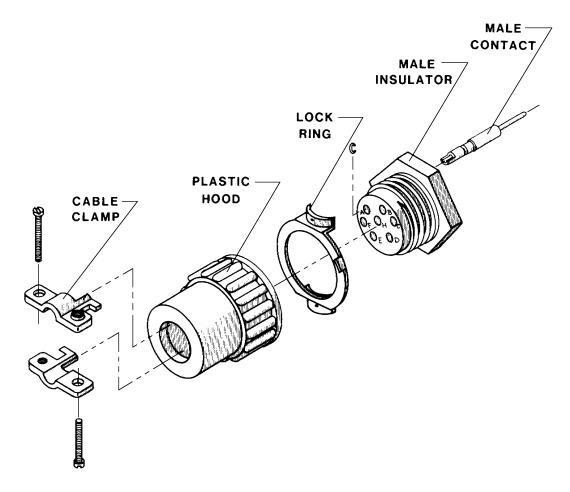
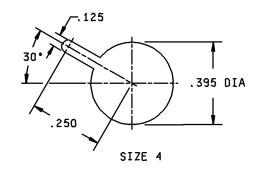
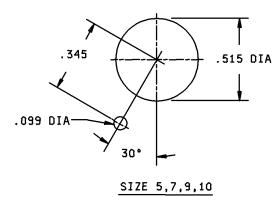
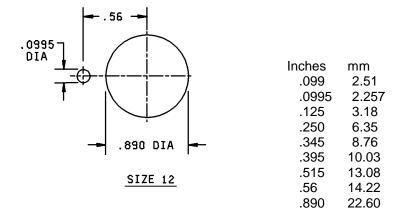


FIGURE 1. Connector.

AMSC N/A FSC 5935

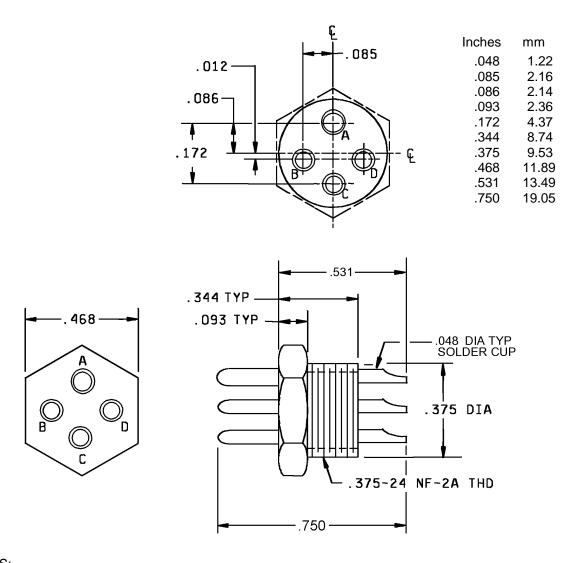






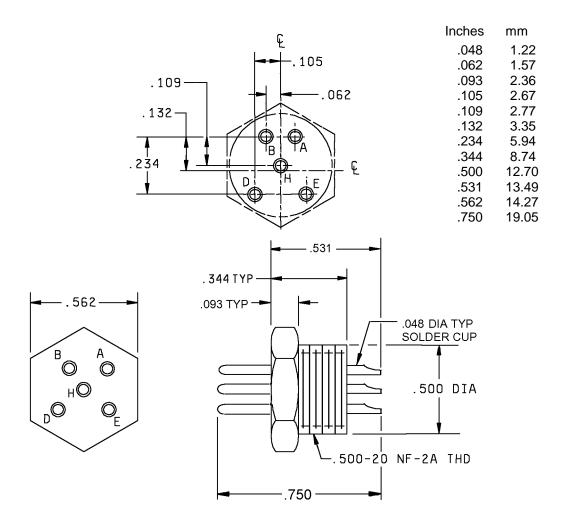
- 1. Dimensions are in inches.
- 2. Metric equivalents are given for general information only.
- 3. Panel drilling typical, slot or hole may be rotated to place terminals in desired position.

FIGURE 2. Panel cut-out dimensions (viewed from front of panel).



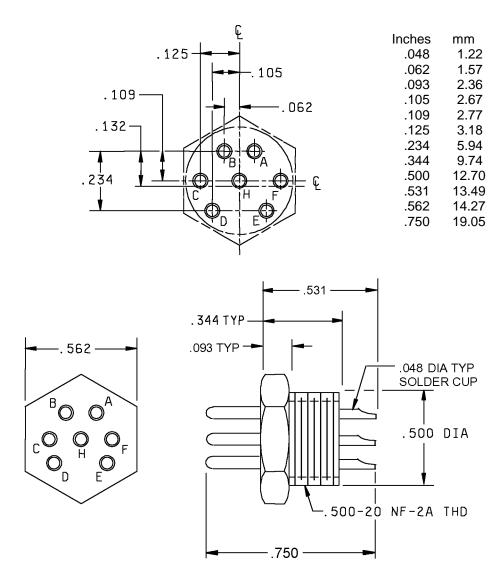
- 1. Dimensions are in inches.
- 2. Metric equivalents are given for general information only.
- 3. Unless otherwise specified, tolerances are \pm .02 inch (0.51 mm) for two place decimals, and \pm .015 inch (0.38 mm) for three place decimals.
- 4. Tolerance between any two adjacent contact centers shall be ± .004 inch (0.10 mm). Tolerance between any two contact centers, other than adjacent contacts, shall be ± .006 inch (0.15 mm).
- 5. Dimensions symmetrical about centerlines.
- 6. Contact identification may be located on either side of the contact hold but shall appear on the front and rear face of the contact insert.
- 7. Contact locations are shown from mating face.
- 8. Material: Mineral-filled melamine, type MME, in accordance with ASTM D5948.
- 9. Insert size 4, polarization is accomplished by pin "A" .056 inch (1.42 mm) diameter contact.
- 10. Without nut and lockwasher connector may be used as a plug on cable.

FIGURE 3. Insert 4 contacts.



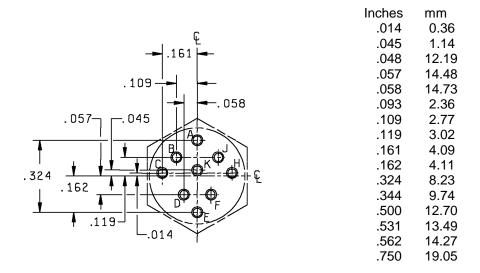
- 1. Dimensions are in inches.
- 2. Metric equivalents are given for general information only.
- 3. Unless otherwise specified, tolerances are \pm .02 inch (0.51 mm) for two place decimals, and \pm .015 inch (0.38 mm) for three place decimals.
- 4. Tolerance between any two adjacent contact centers shall be \pm .004 inch (0.10 mm). Tolerance between any two contact centers, other than adjacent contacts, shall be \pm .006 inch (0.15 mm).
- 5. Dimensions symmetrical about centerlines.
- 6. Contact identification may be located on either side of the contact hold but shall appear on the front and rear face of the contact insert.
- 7. Contact locations are shown from mating face.
- 8. Material: Mineral-filled melamine, type MME, in accordance with ASTM D5948.
- 9. Without nut and lockwasher connector may be used as a plug on cable.

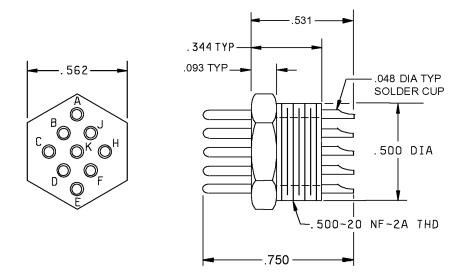
FIGURE 4. Insert 5 contacts.



- 1. Dimensions are in inches.
- 2. Metric equivalents are given for general information only.
- 3. Unless otherwise specified, tolerances are \pm .02 inch (0.51 mm) for two place decimals, and \pm .015 inch (0.38 mm) for three place decimals.
- 4. Tolerance between any two adjacent contact centers shall be \pm .004 inch (0.10 mm). Tolerance between any two contact centers, other than adjacent contacts, shall be \pm .006 (0.15 mm) inch.
- 5. Dimensions symmetrical about centerlines.
- 6. Contact identification may be located on either side of the contact hold but shall appear on the front and rear face of the contact insert.
- 7. Contact locations are shown from mating face.
- 8. Material: Mineral-filled melamine, type MME, in accordance with ASTM D5948.
- 9. Without nut and lockwasher connector may be used as a plug on cable.

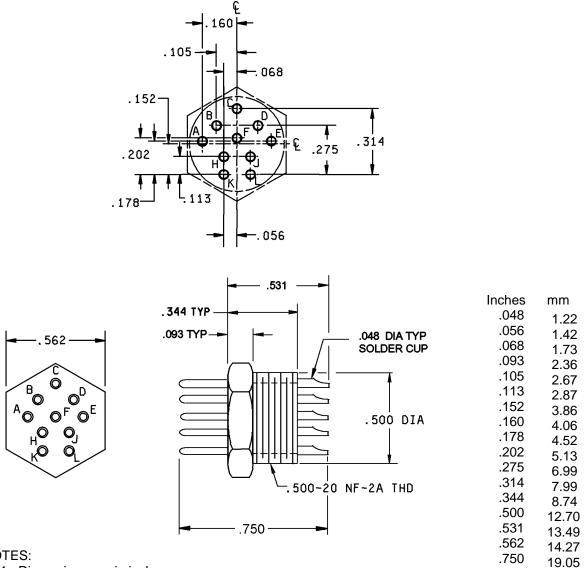
FIGURE 5. Insert 7 contacts.





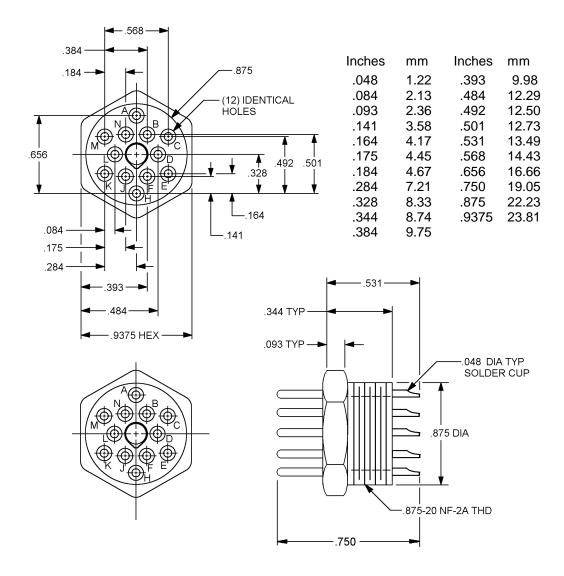
- 1. Dimensions are in inches.
- 2. Metric equivalents are given for general information only.
- 3. Unless otherwise specified, tolerances are \pm .02 inch (0.51 mm) for two place decimals, and \pm .015 inch (0.38 mm) for three place decimals.
- 4. Tolerance between any two adjacent contact centers shall be \pm .004 inch (0.10 mm). Tolerance between any two contact centers, other than adjacent contacts, shall be \pm .006 inch (0.15 mm).
- 5. Dimensions symmetrical about centerlines.
- 6. Contact identification may be located on either side of the contact hold but shall appear on the front and rear face of the contact insert.
- 7. Contact locations are shown from mating face.
- 8. Material: Mineral-filled melamine, type MME, in accordance with ASTM D5948.
- 9. Without nut and lockwasher connector may be used as a plug on cable.

FIGURE 6. Insert 9 contacts.



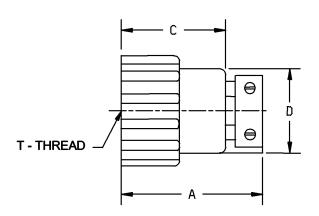
- NOTES:
 - 1. Dimensions are in inches.
 - 2. Metric equivalents are given for general information only.
 - 3. Unless otherwise specified, tolerances are ± .02 inch (0.51 mm) for two place decimals, and ± .015 inch (0.38 mm) for three place decimals.
 - 4. Tolerance between any two adjacent contact centers shall be ± .004 inch (0.10 mm). Tolerance between any two contact centers, other than adjacent contacts, shall be \pm .006 inch (0.15 mm).
 - 5. Dimensions symmetrical about centerlines.
 - 6. Contact identification may be located on either side of the contact hold but shall appear on the front and rear face of the contact insert.
 - 7. Contact locations are shown from mating face.
 - 8. Material: Mineral-filled melamine, type MME, in accordance with ASTM D5948.
 - 9. Without nut and lockwasher connector may be used as a plug on cable.

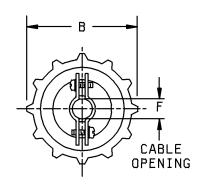
FIGURE 7. Insert 10 contacts.



- 1. Dimensions are in inches.
- 2. Metric equivalents are given for general information only.
- 3. Unless otherwise specified, tolerances are \pm .02 inch (0.51 mm) for two place decimals, and \pm .015 inch (0.38 mm) for three place decimals.
- 4. Tolerance between any two adjacent contact centers shall be ± .004 inch (0.10 mm). Tolerance between any two contact centers, other than adjacent contacts, shall be ± .006 inch (0.15 mm).
- 5. Dimensions symmetrical about centerlines.
- 6. Contact identification may be located on either side of the contact hold but shall appear on the front and rear face of the contact insert.
- 7. Contact locations are shown from mating face.
- 8. Material: Mineral-filled melamine, type MME, in accordance with ASTM D5948.
- 9. Without nut and lockwasher connector may be used as a plug on cable.

FIGURE 8. Insert 12 contacts.

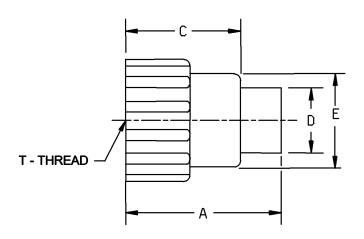


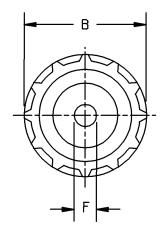


Hood	Connector	A (2000 00 11 1 1 2 2 2 11 2 2	B (55 11.5	C	D	F dia	
designator	size	(overall length) (mm)	(overall dia (mm)	(mm)	(dia) (mm)	Cable clamp (mm)	T thread
		.83	.56	.69	.44	.21	
С	4	(21.1)	(14.2)	(17.5)	(11.2)	(5.3)	.375-24-UNF-2B
D		.86	.66	.66	.54	.30	
	5, 7, 9, 10	(21.8)	(16.8)	(16.8)	(13.7)	(7.6)	.500-20-UNF-2B
0		.97	.69 ±.06	.78	.62±12	.30	
С	5, 7, 9, 10	(24.6)	(19.8	((7.6)	.500-20-UNF-2B
		.97	.66	.78	.55	.16	
E	5, 7, 9, 10	(24.6)	(16.76)	(19.8)	(14.0)((4.1)	.500-20-UNF-2B

- 1. Dimensions are in inches.
- 2. Metric equivalents are given for general information only.
- 3. Unless otherwise specified, tolerances are \pm .02 inch (0.51 mm) for two place decimals, and \pm .015 inch (0.38 mm) for three place decimals.
- 4. Material: Glass filled diallyl phthalate in accordance with ASTM D5948, type SDG-F or mineral filled melamine-phenolic copolymer in accordance with ASTM D5948, type MME.
- 5. Cable clamp and screws: Brass in accordance with ASTM B36, alloy No. 6, half hard or aluminum in accordance with ASTM B209.
- 6. Finish: Cable clamp and screws, cadmium plate in accordance with SAE-AMS-QQ-P-416, type II, class 2, plus olive drab iridite or yellow anodize in accordance with MIL-A-8625, type II, class 2.

FIGURE 9. Hood with cable clamps.

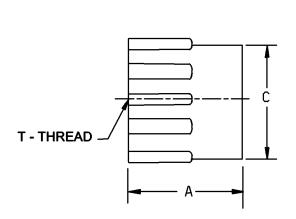


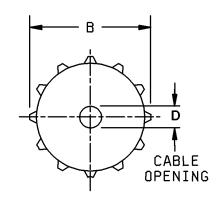


Hood designator	Connector size	A (overall length) (mm)	B (mm)	C (mm)	D (mm)	E dia (mm)	F dia Cable opening (mm)	T thread
Р	4	.75 (19.1)	.56 (14.2)	.69 (17.5)	.25 (6.4)	.44 (11.2)	.16 (4.1)	.375-24-UNF-2B
Р	5, 7, 9, 10	.88 (22.4)	.66 (16.8)	.66 (16.8)	.42 (10.7)	.54 (13.7)	.30 (7.6)	.500-20-UNF-2B
М	5, 7, 9, 10	.88 (22.4)	.66 (16.8)	.66 (16.8)	.27 (6.9)	.54 (13.7)	.14 (3.6)	.500-20-UNF-2B

- 1. Dimensions are in inches.
- 2. Metric equivalents are given for general information only.
- 3. Unless otherwise specified, tolerances are \pm .02 inch (0.51 mm) for two place decimals, and \pm .015 inch (0.38 mm) for three place decimals.
- 4. Material: Glass filled diallyl phthalate in accordance with ASTM D5948, type SDG-F or mineral filled melamine-phenolic copolymer in accordance with ASTM D5948, type MME.
- 5. Cable clamp and screws: Brass in accordance with ASTM B36, alloy No. 6, half hard.
- 6. Finish: Cable clamp and screws, cadmium plate in accordance with SAE-AMS-QQ-P-416, type II, class 2, plus olive drab iridite.

FIGURE 10. Plastic regular hood.

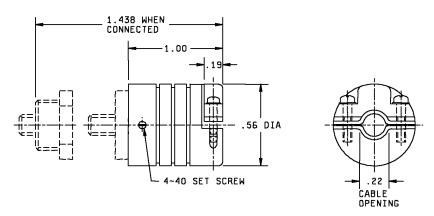




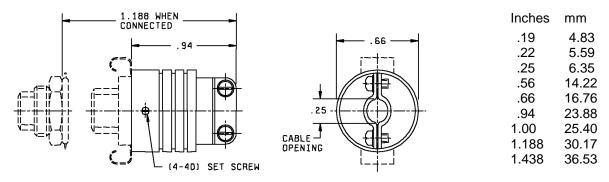
Hood designator	Connector size	A (overall length) (mm)	B (overall dia) (mm)	C (mm)	D Cable opening (mm)	T thread
S	4	.69 (17.5)	.56 (14.2)	.44 (11.2)	.16 (4.1)	.375-24-UNF-2B
S	5, 7, 9, 10	.66 (16.8)	.66 (16.8)	.54 (13.7)	.30 (7.6)	.500-20-UNF-2B
Т	5, 7, 9, 10	.66 (16.8)	.66 (16.8)	.54 (13.7)	.14 (3.56)	.500-20-UNF-2B

- 1. Dimensions are in inches.
- 2. Metric equivalents are given for general information only.
- 3. Unless otherwise specified, tolerances are \pm .02 inch (0.51 mm) for two place decimals, and \pm .015 inch (0.38 mm) for three place decimals.
- 4. Material: Glass filled diallyl phthalate in accordance with ASTM D5948, type SDG-F or mineral filled melamine-phenolic copolymer in accordance with ASTM D5948, type MME.
- 5. Cable clamp and screws: Brass in accordance with ASTM B36, alloy No. 6, half hard.
- 6. Finish: Cable clamp and screws, cadmium plate in accordance with SAE AMS-QQ-P-416, type II, class 2, plus olive drab iridite.

FIGURE 11. Plastic short hood.



FOR SIZE 4

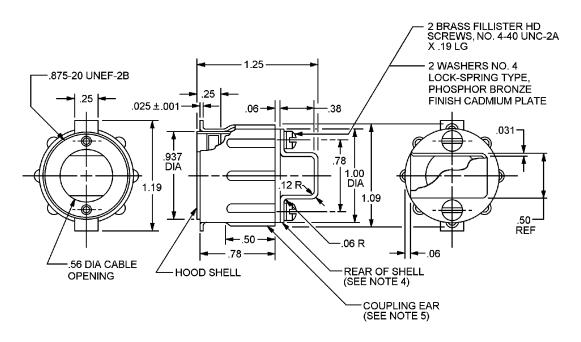


FOR SIZE 5,7,9,10

Hood designator	Connector size	A (overall length) (mm)	B (mm)	C (mm)	D (overall dia) (mm)	E dia (mm)	F dia Cable opening (mm)	T thread
A or B	4	1.06 (26.92	.80 (20.32)	.25 (6.35)	.56 (14.22)	.56 (14.22)	.22 (5.59)	.375-24-UNF-2B
A or B	5, 7, 9, 10	.94 (23.88)	.71 (18.03	.25 (6.35)	.66 (16.76)	.58 (14.73)	.25 (6.35)	.500-20-UNF-2B

- 1. Dimensions are in inches.
- 2. Metric equivalents are given for general information only.
- 3. Unless otherwise specified, tolerances are \pm .02 inch (0.51 mm) for two place decimals, and \pm .015 inch (0.38 mm) for three place decimals.
- 4. Tolerance between any two adjacent contact centers shall be ± .004 inch (0.10 mm). Tolerance between any two contact centers, other than adjacent contacts, shall be ± .006 inch (0.15 mm).
- 5. Dimensions symmetrical about centerlines.
- 6. Contact identification may be located on either side of the contact hold but shall appear on the front and rear face of the contact insert.
- 7. Material aluminum alloy in accordance with SAE-AMS-QQ-A-250/8, temper H327.
- 8. Finish anodize in accordance with MIL-A-8625, type I or type II.

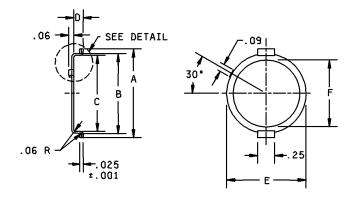
FIGURE 12. Aluminum hood.



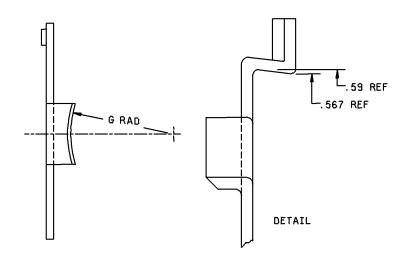
Inches	mm	Inches	mm
.001	0.02	.50	12.70
.025	0.63	.56	14.22
.031	0.79	.78	19.81
.06	1.52	.875	22.22
.12	3.05	.937	23.80
.25	6.35	1.00	25.40
.31	7.87	1.09	27.69
.38	9.65	1.19	30.23
		1 25	31 75

- 1. Dimensions are in inches.
- 2. Metric equivalents are given for general information only.
- 3. Unless otherwise specified tolerances are \pm .02 inch (0.51 mm) for two place decimals, and \pm .005 inch (0.13 mm) for three place decimals.
- 4. Coupling ear to be free and independent of hood shell.
- 5. The rear of the shell shall be made detachable for maintenance purposes.
- 6. Screws brass in accordance with ASTM B36, copper alloy Unified Numbering System (UNS) designator C26000, Rockwell hardness B57 to B77.
- 7. Material aluminum alloy in accordance with SAE-AMS-QQ-A-250/8, temper H327.
- 8. Finish anodize in accordance with MIL-A-8625, type I or type II.
- 9. Hood is to be used in conjunction with coupling ear (lock ring) and brass nut.

FIGURE 13. Right angle hood designator R (insert size 12).



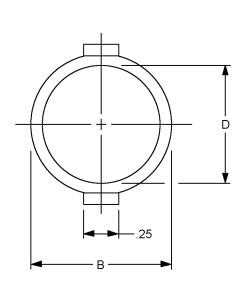
Inches	mm
.001	0.03
.025	0.63
.06	1.52
.09	2.29
.25	6.35
.567	14.40
.59	14.97

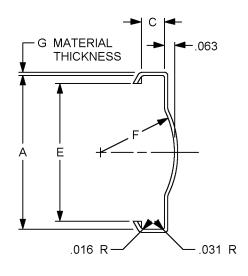


	Incort	Α	В	С	D	E	F	G
Lock type	Insert	(mm)	(mm)	±.015	(mm)	Dia	Dia	Rad
	size			(mm)		(mm)	±.010	(mm)
_		.62	.50	.473	.09	.47	.380	.25
R	4	(15.74)	(12.70)	(12.01)	(2.29)	(11.94)	(9.65)	(6.35)
_	5, 7,	.72	.61	.567	.08	.66	.515	.25
R	9, 10	(18.29)	(15.49)	(14.40)	(2.03)	(16.76)	(13.08)	(6.35)
_		1.12	.97	.942	.11	1.06	.882	.50
R	12	(28.45)	(24.64)	(23.93)	(2.79)	(26.92)	(22.40)	(12.70)

- 1. Dimensions are in inches.
- 2. Metric equivalents are given for general information only.
- 3. Unless otherwise specified, tolerances are \pm .02 inch (0.51 mm) for two place decimals, and \pm .015 inch (0.38 mm) for three place decimals.
- 4. Materials: Brass in accordance with ASTM B36, copper alloy UNS designator C26000, Rockwell hardness B57 to B77.
- 5. Finish cadmium plate in accordance with SAE-AMS-QQ-P-416, type II, class 3.

FIGURE 14. Coupling-ear (lock-ring).





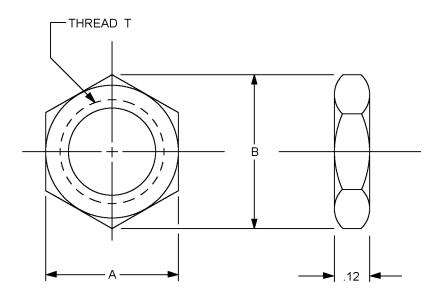
Inches	mm
.010	0.25
.016	0.41
.031	0.79
.063	0.60
.250	6.35

		Α	В	С	D	Е	F	G
Lock type	Insert size	(mm)	(mm)	(mm)	+.010	(mm)	Radius	(mm)
					(mm)		(mm)	
_	_	.656	.468	.145	.380	.515	.250	0.016
S	4	(16.66)	(11.89)	(3.68)	(9.65)	(13.08)	(6.35)	(0.41)
_		.750	.641	.145	.507	.621 <u>1</u> /	.500	.010
S	5, 7, 9, 10	(19.05)	(16.28)	(3.68.)	(12.88)	(15.47)	(12.70)	(0.25)
_		1.156	1.046	.171	.882	1.031	.750	.0159
S	12	(29.36)	(26.57)	(4.34)	(22.40)	(26.19)	(19.05)	(4.04)

1/ Tolerance is $\pm .010$ inch (0.25 mm).

- 1. Dimensions are in inches.
- 2. Metric equivalents are given for reference purposes only.
- 3. Tolerance unless otherwise specified is $\pm\,.005$ inch (0.13 mm).
- 4. Material: Phosphor bronze, in accordance with ASTM B139, copper alloy UNS designator C51000, spring temper.
- 5. Finish: Cadmium plate in accordance with SAE-AMS-QQ-P-416, type II, class 3.

FIGURE 15. Coupling ring, rotating (lock spring).

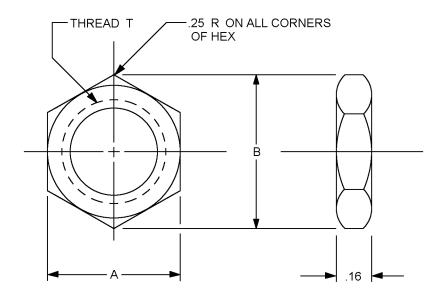


Inch mm .12 3.05

Nut	Connector	Α	В	T thread
designator	size	(mm)	(mm)	i illieau
		.502		
N		(12.75)	.56	
IN	4	.492	(14.22)	.375-24 UNF-2B
		(12.50)		
		.564		
NI NI		(14.33)	.66	
N	5, 7, 9, 10	.553	(16.7.6)	.500-20UNF-2B
		(14.05)	,	
		1.12	1.22	
N		(28.45)	(31.00)	
IN IN	12	1.11		.875-20 UNEF-2B
		(28.15)		

- 1. Dimensions are in inches.
- 2. Metric equivalents are given for general information only.
- 3. Unless otherwise specified, tolerances are \pm .02 inch (0.51 mm) for two place decimals, and \pm .015 inch (0.38 mm) for three place decimals.
- 4. Material: Brass in accordance with ASTM B21, copper alloy UNS designator C46200 or ASTM B283, ASTM B124, copper alloy UNS designator C46400.
- 5. Finish: Cadmium plate in accordance with SAE-AMS-QQ-P-416, type II, class 3.

FIGURE 16. Brass nut.

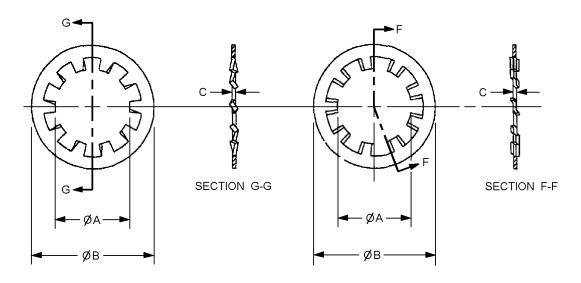


Inch mm .16 4.06

Nut designator	Connector size	A (mm)	B (mm)	T thread
Р	4	.502 (12.75) .492 (12.50)	.56 (14.22)	.375-24 UNF-2B
Р	5, 7, 9, 10	.564 (14.33) .553 (14.05)	.66 (16.7.6)	.500-20 UNF-2B
Р	12	1.12 (28.45) 1.11 (28.15)	1.22 (31.00)	.875-20 UNEF-2B

- 1. Dimensions are in inches.
- 2. Metric equivalents are given for general information only.
- 3. Unless otherwise specified, tolerances are \pm .02 inch (0.51 mm) for two place decimals, and \pm .015 inch (0.38 mm) for three place decimals.
- 4. Material: 30 percent glass fiber reinforced nylon 6\6 or equivalent.

FIGURE 17. Nylon nut.

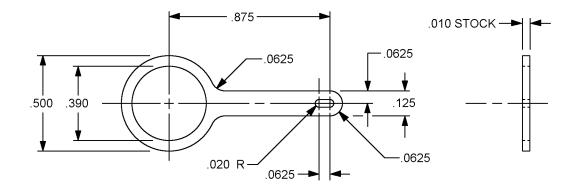


ACCEPTABLE DESIGNS

Washer PIN NASM35333-	Washer designator	Connector size	Size	Insid	e dia.	Outsi	de dia	Thick	ness
(see note 5)		SIZC		Max	Min	Max	Min	Max	Min
42	W	4	.375	.398	.384	.692	.670	.040	.032
44	W	5, 7, 9, 10	.500	.530	.512	.900	.867	.045	.037
48	W	12	.875	.927	.894	1.410	1.364	.060	.052

- 1. Dimensions are in inches.
- 2. Metric equivalents are given for general information only.
- Material: Carbon steel, cadmium plated in accordance with SAE-AMS-QQ-P-35, type II, class 2.
 The number of teeth shall be at the option of the manufacturer.
- 5. Part or Identifying Number (PIN).

FIGURE 18. Lock washer (internal tooth).



Inches	mm
.010	0.25
.020	0.51
.0625	1.59
.125	3.18
.390	9.91
.500	12.70
.875	22.23

- 1. Dimensions are in inches.
- 2. Metric equivalents are given for general information only.
- 3. Tolerance \pm .016 inch (0.41 mm).
- 4. Material: Brass strip in accordance with ASTM B36, ½ HD, copper alloy UNS designator C28000.
- 5. Tumble to remove sharp edges.
- 6. Finish tin in accordance with SAE-AMS-P-81728, .0002 inch (0.005 mm) thick maximum.
- 7. Dimensions shown before plating thickness.

FIGURE 19. Ground lug.

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REQUIREMENTS

Dimensions and configuration: See figures 1 through 19 for inserts and accessories.

Insert material: Glass filled diallyl phthalate, in accordance with ASTM D5948, type SDG-F,

flammability rating UL94 V-0.

Mating connector: MIL-DTL-28748/15.

Temperature range: -55°C to +125°C.

Working voltage: 300 volts rms.

Current rating: 7.5 amperes maximum.

Initial contact resistance: 0.010 ohms max.

Dielectric withstanding voltage (DWV):

Insert size 4 through 10: 1,500 VAC for one minute.

Insert size 12: 2,250 VAC for one minute.

Contact retention: 10 lbs (44.5 N) minimum.

Contacts size 20 in accordance with MIL-DTL-28748, except as specified herein.

Solder cup hole diameter:

Insert sizes 4 through 10: .048 inches (1.22 mm).

Insert size 12: .043 inches (1.09 mm).

Solder cup termination: Accepts up to size 20 AWG stranded wire.

PWB wire termination: .025 inch (0.64 mm) diameter straight solder.

Panel thickness: For 1/16-inch (1.59 mm) panel mounting receptacle use cadmium plated brass nut for insert 4 through 10, for size 12 insert use nylon nut.

Non-metallic: Non-metallic accessories consisting of hoods and hardware do not require full qualification inspection. Qualification inspection shall consist of quality conformance inspection specified in MIL-DTL-28748, group A, examination of product. Certification of materials used shall be made to the qualifying activity upon request.

All nonmetallic material shall be selected to meet the hydrolytic reversion resistance in accordance with ASTM D570. Certification of hydrolytic stability is required. Specify material tested and water absorption report, as specified in ASTM D570. If requested test data shall be made available to the qualifying activity.

Metallic hardware: Metallic hardware consist of shells, coupling ring, coupling ear, brass nut, and ground lug. After initial qualification testing as specified in MIL-DTL-28748, group A and B testing shall be as specified in the following.

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Qualify conformance inspection shall be in accordance with MIL-DTL-28748 group A, examination of product, and magnetic permeability as specified in group B of MIL-DTL-28748. Certification of materials used shall be made available to the qualifying activity upon request.

Ground lug: In addition to the inspections above the ground lug requires solderability testing in accordance with qualification inspection of MIL-DTL-28748 as part of the group B inspection.

Lock washer shall be in accordance with Aerospace Industries Association NASM35333-42, -44, or -48, as applicable, cadmium finish (see figure 18).

The PIN shall be as shown in the following example:

<u> </u>	5	R	_A_	0_	0
Insert	Contact	Lock type	Hood	Nut	Ground lug
SIZE	type				
	E Insert size		71	31	31

PIN code:

Insert size A B C D E F	Number of contacts 4 5 7 9 10 12	Contact type 5 - Solder cup	Lock type 2/ R - lock ring S - lock spring 0 - none	Hoods A - Aluminum (yellow chromate) B - Aluminum (black anodize) C - Plastic long with cable clamp D - Plastic short with cable clamp E - Plastic long with cable clamp, small cable opening M - Plastic hood long, small cable
P - N	Brass nut ylon nut Lock washer <u>6</u> / one	Ground lug 3/ G -insert (size 4 0 - none	IA only)	opening P - Plastic hood long R - Right angle (size 12) S - Plastic short T - Plastic short, small cable opening 0 - none

- 1/ The number zero (0) is used to indicate which parts are not included.
- 2/ When a lock spring or a lock ring are ordered with a mounting nut, a lock washer is furnished.
- 3/ For insert designator A (4 contacts) only, can be use to ground any of the four contacts.
- 4/ To order lock washers individually use NASM35333-42, -44, or -48 as applicable, cadmium finish (see figure 18).
- 5/ Do to space constraints and physical size of the lock ring, lock spring, nut and ground lug, the MIL marking requirements will only be indicated on the packaging.
- 6/ To order accessories separately (nut, hoods, etc) use M28748/15.

Superseded MS sheets: See table I.

TABLE I. Superseded MS sheets to M28748 designator.

Superseded	Superseding
MS sheet	M28748/15 designator
MS24038-1	M28748/16B50000
MS24038-2	M28748/16B50000
MS24038-3	M28748/16B50000
MS24056-1	M28748/16D50000
MS24056-2	M28748/16D50000
MS24056-3	M28748/16D50000

Permissible PINs (complete connectors): See table II.

TABLE II. Permissible PINs complete connectors.

Number of contacts	Insert designator	Contact type	Lock type	Hood	Nut	Ground lug
4	M28748/16A	5	0, R, S	0, A, B, C, P, S	0, N, P	0, G
5	M28748/16B	1, 2, 3, 4, 5	0, R, S	0, A, B, C, D, E, P, S	0, N, P	0
7	M28748/16C	1, 2, 3, 4, 5	0, R, S	0, A, B, C, D, E, P, S	0, N, P	0
9	M28748/16D	1, 2, 3, 4, 5	0, R, S	0, A, B, C, D, E, P, S	0, N, P	0
10	M28748/16E	1, 2, 3, 4, 5	0, R, S	0, A, B, C, D, E, P, S	0, N, P	0
12	M28748/16F	1, 2, 3, 4, 5	0, R, S	0, R	0, N, P	0

Referenced documents. In addition to MIL-DTL-28748, this document references the following:

ASTM B21	MIL-A-8625
ASTM B36	NASM35333
ASTM B124	SAE-AMS-QQ-A-250/8
ASTM B139	SAE-AMS-QQ-P-35
ASTM B209	SAE-AMS-QQ-P-416
ASTM B283	SAE-AMS-P-81728
ASTM D570	
ASTM D5948	

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CONCLUDING MATERIAL

Custodians:

Army - CR Navy - EC Air Force - 11 DLA -CC Preparing activity: DLA - CC

(Project 5935-4336-004)

Review activities:

Army - AR, AT, AV, CR4, MI Navy - AS, MC, OS, SH Air Force - 99

NOTE: The activities listed above were interested in this document as of the date of this document. Since organizations and responsibilities can change, you should verify the currency of the information above using the ASSIST Online database at http://www.dodssp.daps.mil.